BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work : Providing Water Pipe Line in Ward No.07 Byatarayanapura

Estimated Cost Rs: 1500000.00

Sl No	Description of work	No	Dimensions			Qty	Rate	Unit	Amount
			L	B	D				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	**Cutting of road surface** for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., **in the Asphalt surface road. (P-257, It-37.38)**								
	Main Line	1	315.00	0.60	0.10	18.90			
	Individual connection	85	1.00	0.45	0.10	3.83			
					Total	**22.73**	**345.60**	**Cum**	**7854.00**
	Basic Rate	320.00							
	Add AW 8%	25.60							
	Total	**345.60**							
2	**Cutting of road surface** for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., **in the Cement Concrete road. (P-257, It-37.40)**								
	Main Line	1	400.00	0.60	0.15	36.00			
	Individual connection	80	1.50	0.45	0.15	8.10			
					Total	**44.10**	**615.60**	**Cum**	**27148.00**
	Basic Rate	570.00							
	Add AW 8%	45.60							
	Total	**615.60**							
3	KSRB 2-2.2: Earthwork excavation for foundtion of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soilnot exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications Specification No.KBS 2.1(b)/2.3.5 **(P-5, It,-2.4)**								
	Main Line	1	715.00	0.60	0.45	193.05			
	Individual connection	165	1.50	0.45	0.45	50.12			
					Total	**243.17**	**115.56**	**Cum**	**28101.00**
	Basic Rate	107.00							

	Add AW 8%	8.56							
	Total	**115.56**							
4	*Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to depth not less than 15cms with gravel or selected earth available from the excavation etc. complete* ***PRED SR 2012-13 (P-14, It,-3.4.2a)*** *63mm dia of 6Kg/Cm2*								
	Main Line	1	715.00			715.00			
					Total	**715.00**	**115.36**	**Mtr**	**82482.00**
	Basic Rate	112.00							
	Add AW 3%	3.36							
	Total	**115.36**							
5	*Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, Consoldation in layers of 15cm thick including disposing of the surplus earth with a lead of 200 Meters.* ***PRED SR 2012-13 (P-3, It,-1.6)***								
	Main Line	1	715.00	0.60	0.45	193.05			
	Individual connection	60	1.50	0.45	0.45	18.23			
					Total	**211.28**	**62.83**	**Cum**	**13274.00**
	Basic Rate	61.00							
	Add AW 3%	1.83							
	Total	**62.83**							
6	*KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1* ***(P-144 & 150 It.No. 17.1)***								
					Qty Vide Item No.1 & 2	66.83			
					Total	**66.83**	**101.09**	**Cum**	**6755.0**
	Basic Rate	68.00							
	Conveying for 10Km 10 x 1.28 x 2 =25.6	25.60							
	Sub total	**93.60**							
	Add AW 8%	7.49							

	Total	**101.09**							
7	*KSRB 4-1.3:Providing and laying position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machienry, curing complete as per specifications. Specification No.KBS 4.1, 4.2* ***(P-12, It.4.3)***								
	Main Line	*1*	*715.00*	*0.60*	*0.15*	*64.35*			
	Individual connection	*165*	*1.50*	*0.45*	*0.15*	*16.71*			
					Total	**81.06**	**5070.60**	**Cum**	**411004.00**
	Basic Rate	*4695.00*							
	Add AW 8%	*375.60*							
	Total	**5070.60**							
8	*KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size grader granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 15 cms. thick well compacted, in* ***foundation, plinth and cills,*** *including cost of all materials, labour, HOM of machinary, curing complete as per specifications. Specification No. KBS 4.1, 4.2,* ***(P-12, It;4.5)***								
	Main Line	*1*	*715.00*	*0.60*	*0.10*	*42.90*			
	Individual connection	*165*	*1.50*	*0.45*	*0.10*	*11.14*			
					Total	**54.04**	**5991.84**	**Cum**	**323784.00**
	Basic Rate	*5548.00*							
	Add AW 8%	*443.84*							
	Total	**5991.84**							
9	*Providing and fixing chotinated polyvenly chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittihgs this includes jointing of pipes and fitting with one step solvent cement, trenching, refilling & testing of joints complete (external work) 20mm normal OD Pipes* ***(P-97, It No.13.87.2)***								
		165	*1.50*			*247.50*			
					Total	**247.50**	**135.00**	**Mtr**	**33413.00**

	Basic Rate	125.00							
	Add AW 8%	10.00							
	Total	**135.00**							
10	KSRB 13-6.2-2: Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.2/13.3 **(P-91, It.No.13.27)**								
		35				35.00			
					Total	**35.00**	**172.80**	**Each**	**6048.0**
	Basic Rate	160.00							
	Add AW 8%	12.80							
	Total	**172.80**							
11	KSRB 13-6.3-7: Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3, **(P-92, It.No.13.37)**								
		38				38.00			
					Total	**38.00**	**2160.00**	**Each**	**82080.0**
	Basic Rate	2000.00							
	Add AW 8%	160.00							
	Total	**2160.00**							
12	Supply of Drlnking water through water tankers of capcaity 6000 litres ., Hiring of water tanker (Pg No. xxxvii, code No. 1032) For 3000 litres = 485.60/2 = 242.80								
						1.00			
					Total	**1.00**	**242.80**	**Per day**	**242.8**
	Basic Rate	242.80							
	Add AW 8%	0.00							
	Total	**242.80**							
13	Hiring of tractor 40 HP. (Per hour 190. For 8 hours= 190*8= 1520								
						1.00			
					Total	**1.00**	**1520.00**	**Per day**	**1520.0**
	Basic Rate	1520.00							
	Add AW 8%	0.00							
	Total	**1520.00**							

14	**Procurement of water Rs., 216.00/- load (6000 litres) considering 3000 litres. Cost is Rs. 108/- per load. Considering 5loads per day. (5 * 108 = 540)**								
		5				5	108	Nos	**540**
15	**Engaging heavy Mazdoor (Page No. LII). PWD SR- 15-16**								
		1				1			
					Total	1	243.6	Nos	**243.55**
						Total			**2546.35**
					For each load				**509.27**
						Say			**510.00**
	Rs., 558 for each load per day								
	Considering 6 loads/day for 4 months 6 X 558 X 558								**459000.00**
16									**1480933.00**
17	Third party inspection charges								**14809.33**
18	Miscellaneous and rounding OFF:								**4257.67**
									1500000.00

Certificate:-

that the work spot comes under BBMP limits only.

s per CSR of 2015-16 year of PWD Bangalore Circle.

ns made in estimate are adequate and necessary.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

Administrative Approval
Accorded For 15.00 lakhs.
Head of A/C P-1802
CER NO : 70 Dt:. 31/12/16

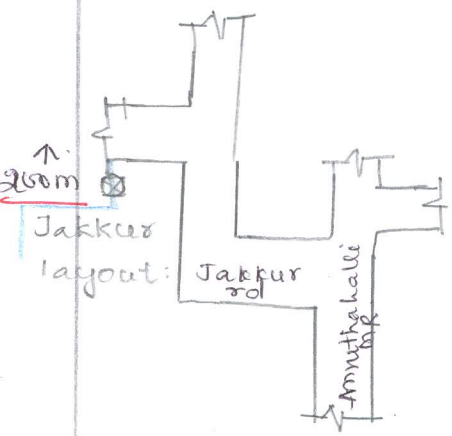
TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Fifteen laths only
Head of A/C P-1802
Div. Ref. No. 98/16-17 12/01/17

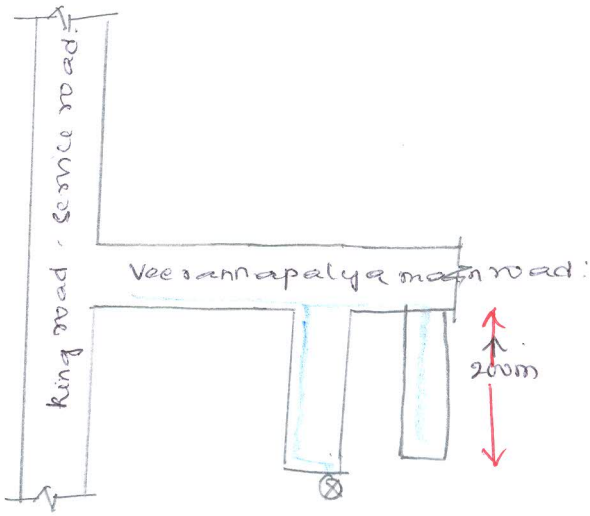
AE EE(BTP) 12/01

Name of Work:- Providing waters pipe line in ward No-07 Byatarayanapura:

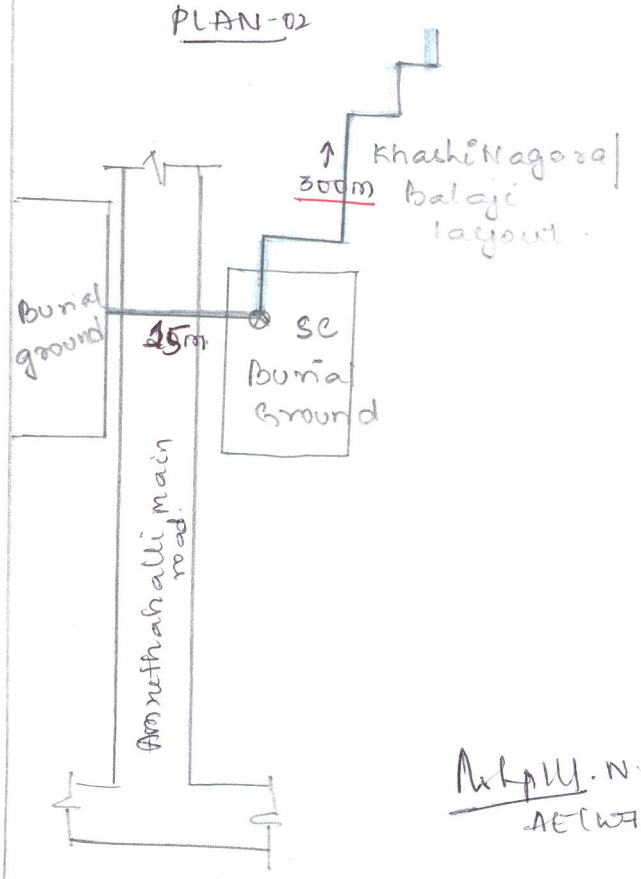
N



PLAN-02



PLAN-03.



PLAN-01

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Borwell location

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Ashalli. N.D
AE(W7)